

**ABSTRACT**

Disclosed herein is a draw tower for optical fiber producing systems. The draw tower supports a preform feed unit, a furnace, a spinning nozzle, a diameter gauge, and a coating unit thereon. The draw tower includes a plurality of vertically assembled frames. Each of the frames consists of a hollow column vertically erected at each corner to form a square structure, a plurality of horizontal beams horizontally extending between the upper ends and the lower ends of the columns, and a cantilever beam diagonally connected between the columns. The cantilever beam of at least one upper frame has a cross-sectional area smaller than that of a conventional cantilever beam, thus reducing weight of the upper part of the draw tower. The hollow columns of at least one lower frame each have the same cross-sectional area as that of a conventional hollow column while having thicker walls than a conventional column, thus reinforcing the lower part of the draw tower in addition to preventing vibration of the draw tower. A support is provided at the lowest-most frame of the draw tower for additionally supporting the lower part of the draw tower.